

Component	Effect on Growth Rate
Myoinositol	-
Serine	+
Alanine	++
Proline	-
Glycine	+
sarcosine	+++
Taurine	+++
Dimethyl glycine	-
Urea	-

Legend. +++ is a strong effect; ++ is a medium effect; + is a small effect; - is no effect.

As a measure of the effect of dimethylglycine and sarcosine on the viability of mammalian cells under dehydrated conditions in a clinical setting, a test was used in which the growth performance of a hybridoma cell line was measured, using potassium chloride as a model of dehydration.

Mouse hybridoma cells (6H11) were grown in suspension using DMEM containing 4.5 g/l glucose, 110 mM NaCl, 5 mM KCl, 1 mM pyruvate, 1 mM L-glutamic acid, 50,000 IU penicillin, 50 mg/l streptomycin and 100 ml fetal calf serum/l.

Growth rate was measured and compared when osmolarity was increased from 330 mOsm/kg to 450 mOsm/kg by fortification to 60 mM KCl. It was determined that the growth rate stopped completely.

Attachment A